

Exhibit 9



PubMed

Nucleotide

Protein

Genome

Structure

PopSet

Taxonomy

OMIM

Boo

Search for

☐ 1: NM_005226. Homo sapiens endo...
[gi:4885194]

Related Sequences, OMIM, Protein, PubMed, Taxonomy,
LinkOut

LOCUS NM_005226 1137 bp mRNA linear PRI 16-NOV-2000
DEFINITION Homo sapiens endothelial differentiation, sphingolipid
G-protein-coupled receptor, 3 (EDG3), mRNA.
ACCESSION NM_005226
VERSION NM_005226.1 GI:4885194
KEYWORDS .
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1137)
AUTHORS Yamaguchi, F., Tokuda, M., Hatase, O. and Brenner, S.
TITLE Molecular cloning of the novel human G protein-coupled receptor
(GPCR) gene mapped on chromosome 9
JOURNAL Biochem. Biophys. Res. Commun. 227 (2), 608-614 (1996)
MEDLINE 97032811
PUBMED 8878560
REFERENCE 2 (bases 1 to 1137)
AUTHORS An, S., Bleu, T., Huang, W., Hallmark, O.G., Coughlin, S.R. and
Goetzl, E.J.
TITLE Identification of cDNAs encoding two G protein-coupled receptors
for lysosphingolipids
JOURNAL FEBS Lett. 417 (3), 279-282 (1997)
MEDLINE 98072391
PUBMED 9809733
REFERENCE 3 (bases 1 to 1137)
AUTHORS Ancellin, N. and Hla, T.
TITLE Differential pharmacological properties and signal transduction of
the sphingosine 1-phosphate receptors EDG-1, EDG-3, and EDG-5
JOURNAL J Biol. Chem. 274 (27), 18997-19002 (1999)
MEDLINE 98315836
PUBMED 10383399
REFERENCE 4 (bases 1 to 1137)
AUTHORS Spiegel, S.
TITLE Sphingosine 1-phosphate: a ligand for the EDG-1 family of
G-protein-coupled receptors
JOURNAL Ann. N. Y. Acad. Sci. 905, 54-60 (2000)
MEDLINE 20278382
PUBMED 10818441
REFERENCE 5 (bases 1 to 1137)
AUTHORS Hla, T., Lee, M.J., Ancellin, N., Thangada, S., Liu, C.H., Kluk, M.,
Cae, S.S. and Wu, M.T.
TITLE Sphingosine-1-phosphate signaling via the EDG-1 family of
G-protein-coupled receptors
JOURNAL Ann. N. Y. Acad. Sci. 905, 16-24 (2000)

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=nucleotide&list_uids=4... 4/28/2002

NCBI Sequence Viewer

MEDLINE 2078379
 PUBMED 10318438
 REFERENCE 6 (bases 1 to 1137)
 AUTHORS Himmel,H.M., Meyer Zu Heringdorf,D., Graf,E., Dobrev,D.,
 Koertner,A., Schuler,S., Jakobs,K.H. and Ravens,U.
 TITLE Evidence for Edg-3 receptor-mediated activation of I(K.ACh) by
 sphingosine-1-phosphate in human atrial cardiomyocytes
 JOURNAL Mol. Pharmacol. 58 (2), 449-454 (2000)
 MEDLINE 20368609
 PUBMED 10908314
 COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The
 reference sequence was derived from X83864.1.
 Summary: This gene encodes a member of the family I of the G
 protein-coupled receptors, as well as the EDG family of proteins.
 This protein has been identified as a functional receptor for
 sphingosine 1-phosphate and likely contributes to the regulation of
 angiogenesis and vascular endothelial cell function.

FEATURES Location/Qualifiers
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 misc_feature 697..894
 /note="7tm_1; Region: 7 transmembrane receptor (rhodopsin
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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=nucleotide&list_uids=4... 4/28/2002

NCBI Sequence Viewer

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//

EDG-3
RP
antisense

Revised: October 24, 2001.

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